UL SYSTEM NO. W-J-2120

PLASTIC PIPE THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR. T-RATING = 1-HR.

- 1. CONCRETE WALL ASSEMBLY (2-HR. FIRE-RATING):
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 5" THICK).
 - **B. ANY UL CLASSIFIED CONCRETE BLOCK WALL.**
- 2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING AND INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR:
 - A. MAXIMUM 4" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
 - B. MAXIMUM 4" NOMINAL DIAMETER ABS PLASTIC PIPE (CELLULAR OR SOLID CORE).
 - C. MAXIMUM 4" NOMINAL DIAMETER CPVC PLASTIC PIPE (CLOSED PIPING SYSTEM ONLY).
- 3. SHEET METAL SLEEVE (MINIMUM 28 GA.) HAVING A MINIMUM 1" LAP ALONG LONGITUDINAL SEAM. LENGTH OF SLEEVE TO EXTEND 2" BEYOND EACH SURFACE OF WALL.
- 4. HILTI CP 648E WRAP STRIP (NOMINAL 3/16" THICK x 1-3/4" WIDE) CONTINUOUSLY WRAPPED AROUND THE OUTER CIRCUMFERENCE OF THE PIPE, COVERING TWO TIMES, AND HELD IN PLACE WITH TAPE. WRAP STRIP IS INSTALLED FLUSH WITH ENDS OF SHEET METAL SLEEVE.
- 5. NOMINAL 1/2" WIDE STAINLESS STEEL HOSE CLAMP FASTENED AROUND SHEET METAL SLEEVE AT THE CENTER OF EACH WRAP STRIP.
- 6. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
- 7. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 6".

- 2. ANNULAR SPACE BETWEEN SLEEVE AND PERIPHERY OF OPENING = MIN. 0", MAX. 3/4".
- 3. CLOSED OR VENTED PIPING SYSTEM (PVC & ABS = SCHEDULE 40; CPVC = SDR 13.5).



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Scale	1/8" = 1"
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WJ 2120c

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